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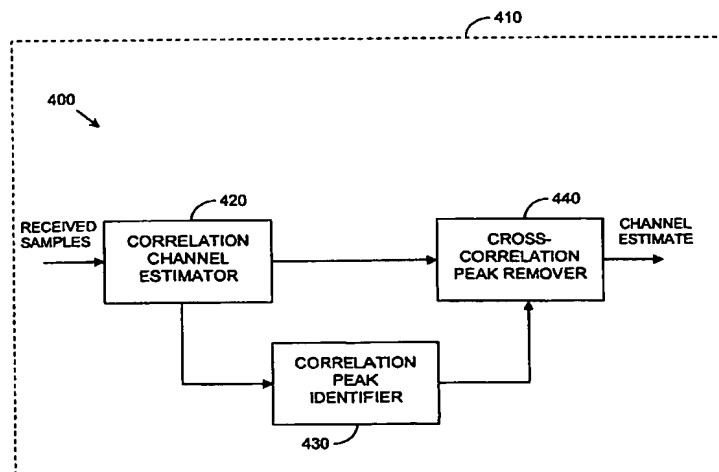
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(54) Title: METHOD AND ARRANGEMENT FOR CHANNEL ESTIMATION IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: A method and arrangement (100) for PRACH burst channel detection in a UTRA TDD wireless communication system in which training sequences are constructed from a single periodic base code. Unwanted cross-correlation peaks, having magnitude less than correlation peaks, are removed (440) from the correlator outputs, maintaining optimal signal-to-noise ratio of the channel estimates, providing a low probability of false detection, and extending the cell size of a CDMA network to that determined by the guard period duration. The cell size can be extended further by ensuring that no transmissions are scheduled for the timeslot subsequent to that in which the channel estimation bursts are scheduled.



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